

# CERTIFICATE

Issued to:  
Applicant:  
**Elektron Technology UK Ltd.**  
**Broers Building, JJ Thomson Avenue**  
**Cambridge CB3 0FA, Great Britain**

Manufacturer/Licensee:  
**Elektron Technology UK Ltd.**  
**Broers Building, JJ Thomson Avenue**  
**Cambridge CB3 0FA, Great Britain**

Products : tumbler switches  
Trade names : ARCOELECTRIC, BULGIN, ELEKTRON  
Types/models : 3900 SERIES

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61058-1:2002 + A2:2008
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2162433

DEKRA hereby grants the right to use the ENEC KEMA-KEUR certification mark.

The ENEC KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the ENEC KEMA-KEUR certification agreement and under the conditions of the ENEC KEMA-KEUR certification agreement.

This certificate is issued on: 6 November 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2187156.02

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



H.R.M. Barends  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



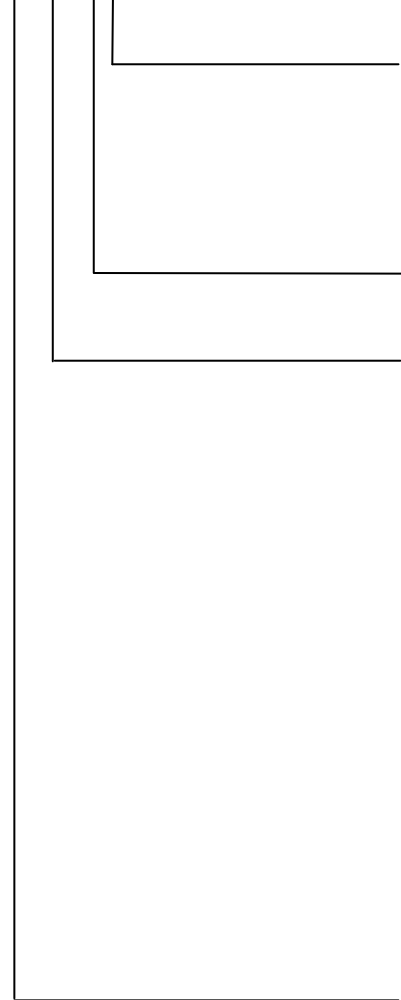
**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	:	tumbler switches
trade name	:	ARCOELECTRIC, BULGIN, ELEKTRON
types	:	3900, 3901, 3902, 3910, 3911, 3920, 3921, 3922, 3950, 3951, 3952, 3960, 3961, 3970, 3971, 3972
type reference	:	common type (C.T.)
type of switch	:	incorporated
rated voltage	:	250 V~
circuit to be controlled	:	resistive and motor
temperature limit	:	T85
contact opening	:	full disconnection
frequency of operation	:	10.000 operating cycles
class	:	for class II appliances
degree of protection	:	IP40 IP67 (with body reference E, F or G)
degree of pollution	:	3
category to heat and fire	:	850°C
rated impulse withstand voltage	:	2500 V
material group	:	IIIa
insulating material	:	tracking resistant (250 V / 400 V)
terminals	:	screw terminals tab terminals (6,3 x 0,8 mm) solder terminals
description	:	body of thermoplastic material and the lever of metal
markings	:	trade name, type reference, temperature limit and electrical ratings on the body

**Additional information**

**. 3900 Series Type key**

X XXXX X X



**Body Reference**

- A - Single pole or double pole without terminal barrier
- E - Single pole, panel sealed
- B - Double pole with terminal barrier
- F - Double pole, sealed toggle with terminal barrier
- G - Double pole, sealed toggle without terminal barrier

**Actuator Reference**

- A - Z for different shapes

**Type Reference**

- 3900 - Single pole ON/OFF
- 3901 - Single pole ON/OFF momentary ON
- 3902 - Single pole ON/OFF momentary OFF
- 3910 - Single pole change-over
- 3911 - Single pole change-over biased
- 3920 - Single pole change-over 3 position centre OFF
- 3921 - Single pole change-over biased one way to centre
- 3922 - Single pole change-over biased both ways to centre
- 3950 - Double pole ON/OFF
- 3951 - Double pole ON/OFF momentary ON
- 3952 - Double pole ON/OFF momentary OFF
- 3960 - Double pole change-over 2 position
- 3961 - Double pole change-over 2 position biased
- 3970 - Double pole change-over 3 position centre OFF
- 3971 - Double pole change-over 3 position centre OFF biased one way to centre
- 3972 - Double pole change-over 3 position centre OFF biased both ways to centre

**Terminal Reference**

- C - 6.3 mm tab terminals
- S - Screw terminals
- T - Solder tag terminals

**Product data - type 3900**

pattern no. : 1  
rated current : 16(4) A  
test circuit : 1.2

**Product data - type 3901**

pattern no. : 1(N.O.)  
rated current : 16(4) A  
test circuit : 1.2

**Product data - type 3902**

pattern no. : 1(N.C.)  
rated current : 16(4) A  
test circuit : 1.2

**Product data - type 3910**

pattern no. : 6  
rated current : 10(4) A  
test circuit : 2.3

**Product data - type 3911**

pattern no. : 6 biased  
rated current : 10(4) A  
test circuit : 2.3

**Product data - type 3920**

pattern no. : 4  
rated current : 10(4) A  
test circuit : 3.3

**Product data - type 3921**

pattern no. : 4 biased one way to centre  
rated current : 10(4) A  
test circuit : 3.3

**Product data - type 3922**

pattern no. : 4 biased both ways to centre  
rated current : 10(4) A  
test circuit : 3.3

**Product data - type 3950**

pattern no. : 2  
rated current : 16(4) A  
test circuit : 1.3

**Product data - type 3951**

pattern no. : 2(N.O.)  
rated current : 10(4) A  
test circuit : 1.3

**Product data - type 3952**

pattern no. : 2(N.C.)  
rated current : 16(4) A  
test circuit : 1.3

**Product data - type 3960**

pattern no. : 6/2  
rated current : 16(4) A  
test circuit : 2.4

**Product data - type 3961**

pattern no. : 6/2 biased  
rated current : 16(4) A  
test circuit : 2.4

**Product data - type 3970**

pattern no. : 4/2  
rated current : 10(4) A  
test circuit : 3.5

**Product data - type 3971**

pattern no. : 4/2 biased one way to centre  
rated current : 10(4) A  
test circuit : 3.5

**Product data - type 3972**

pattern no. : 4/2 biased both ways to centre  
rated current : 10(4) A  
test circuit : 3.5

**TESTS****Test requirements**

EN 61058-1:2002 + A2:2008

**Test result**

The test results are laid down in DEKRA test file 2187156.02.

**Remarks**

This certificate replaces our certificate 2162433.01 dated June 11, 2013 and is also based on the results of that certificate.

According to Annex V, this switch can be incorporated in unattended household appliances, which fall under the scope of EN 60335-1, but an additional needle flame test has to be performed to the surroundings of the switch.

**Conclusion**

The examination proved that all test requirements were met.

Tested by : B.A. Nan

Checked by : E. Stoel

**Factory location**

Elektron Tunisie  
13 Rue 62128 Zone Industrielle, IBN Khaldoun  
2042, CITE ETTAHRIR, Tunisia